

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7467 (1974): Bands, Matrix, Dental, No. 1 and 2 [MHD 8: Dentistry]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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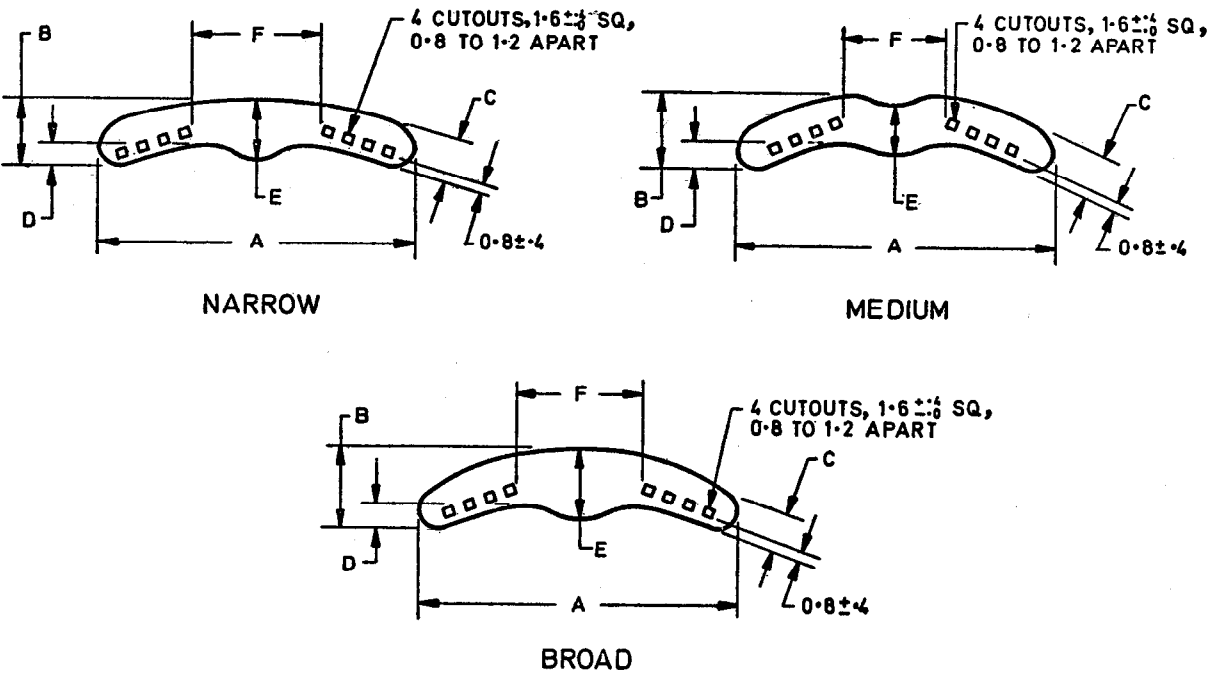


Indian Standard

SPECIFICATION FOR

BANDS, MATRIX, DENTAL, NO. 1 AND 2

1. **Scope** — Prescribes dimensions and other requirements for matrix bands No. 1 and 2 to be used with matrix retainers No. 1 and 2 respectively given in IS : 6815-1972 ' Retainers, matrix, dental, No. 1 and 2 '.
2. **Sizes** — Matrix bands No. 1 and 2 shall be of three sizes each, namely, narrow, medium and broad.
3. **Shape and Dimensions** — As shown in Fig. 1 and 2.



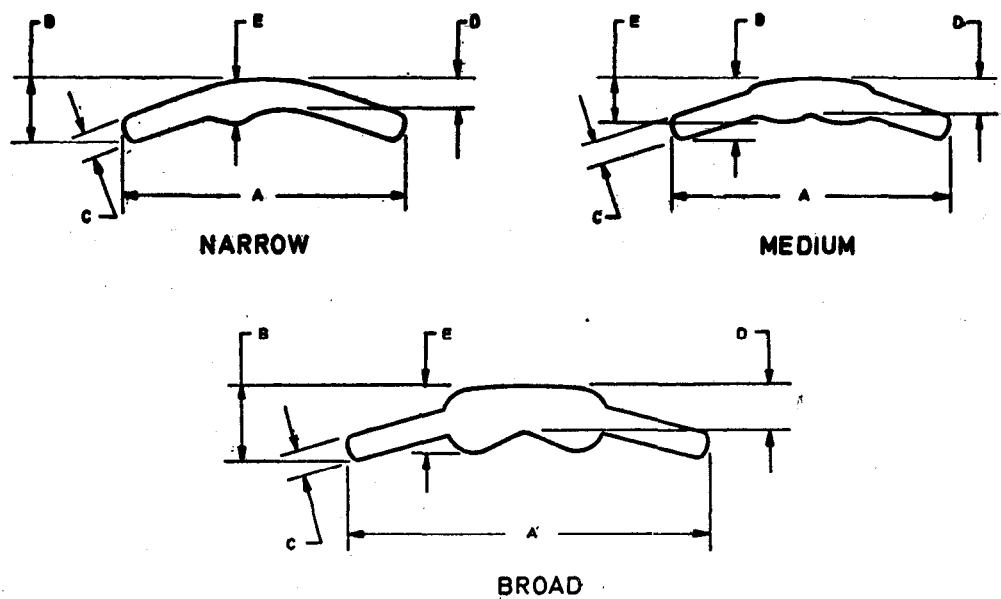
Size	$A \pm 1.5$	$B \pm 0.5$	$C \pm 0.5$	$D \pm 0.5$	$E \pm 0.5$	$F \pm 0.8$
Narrow	34.5	7.2	4.8	5.0	6.3	14.0
Medium	34.5	8.0	5.0	5.5	6.8	11.0
Broad	34.5	8.5	6.2	6.8	8.0	13.5

All dimensions in millimetres.

FIG. 1 BAND, MATRIX, DENTAL, NO. 1

- 3.1 The bands shall be capable of being fitted around a tooth to supply a missing wall or contour against which the filling material may be placed and condensed.
4. **Material** — Stainless steel strip conforming to Designation 04Cr18Ni10 or 07Cr18Ni9 of IS : 6911-1972 ' Specification for stainless steel plate, sheet and strip '.
5. **Workmanship and Finish**
- 5.1 Matrix bands shall be free from any imperfections which detract from their appearance or may impair their serviceability.
- 5.2 The surfaces of the matrix bands shall be polished. They shall be cleanly trimmed and smoothly finished with no sharp edges.

Dental Instruments Sectional Committee, CPDC 21; Dental Cutting and Filling Instruments Subcommittee, CPDC 21 : 1 [ Ref : Doc: CPDC 21 (827) ]



Size	$A \pm 1.5$	$B \pm 0.5$	$C \pm 0.5$	$D \pm 0.5$	$E \pm 0.5$
Narrow	51.5	11.5	5.0	5.5	7.5
Medium	50.0	11.5	5.0	6.5	8.0
Broad	65.0	13.8	5.0	8.5	11.5

All dimensions in millimetres.

FIG. 2 BAND, MATRIX, DENTAL, NO. 2

6. Tests

6.1 *Staining* — The matrix bands, when dipped for 16 hours in each of the following solutions, shall not show any sign of staining after removal from each solution:

- a) 10 g of glacial acetic acid ( 99 percent ) dissolved in distilled water to make 100 ml, and
- b) 5 g of pure sodium chloride dissolved in distilled water to make 100 ml.

6.2 *Flexibility* — Matrix bands shall withstand a minimum of two bends before breaking, when tested as specified in 6.2.1.

6.2.1 The matrix band shall be bent back on itself by creasing it in the middle ( so that one half is superimposed on the other ) and returning it to its original flat position. The flattening and straightening of the 180° bend shall be done by using a rubber covered metal roller weighing  $2\,000 \pm 250$  g. Subsequent bend shall be performed in the same way with the inside surface of the crease the same for both the bends.

7. *Packing* — A set of equal number of the three sizes of matrix bands shall be packed according to trade practices. Matrix bands No. 1 and No. 2 shall be packed separately.

8. *Marking* — The package containing matrix bands shall be legibly and indelibly marked with their number; the manufacturer's name, initials or trade-mark; the words ' Stainless Steel ' and the country of manufacture.

8.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.